## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-289-5

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

## HERCULES ENGINE COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Hercules Engine Company 1995 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

<u>Fuel Type</u>: Compressed Natural Gas (CNG ONLY)

Engine Family	Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
SHE5.6D9KORA	5.6	339	Engine Control Module Charge Air Cooler Turbocharger

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake horsepower-hour:

Non-Methane	Carbon	Nitrogen	<u>Particulates</u>
<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
1.2	15.5	5.0	0.10

The following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour:

Engine	Non-Methane	Carbon	Nitrogen	<u>Particulates</u>
Family	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
SHE5.6D9KORA	0.9	2.8	2.0	0.10

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this \_\_\_\_\_\_day of\_January, 1995.

R. B. Summerfield

Assistant Division Chief Mobile Source Division

				L.U.T.	71 201 3
	199 <u>5</u> AIR RESO HEAVY	OURCES BOARD S -DUTY OTTO-STA	SUPPLEMENTAL DA	ATA SHEET	Page $1 \text{ of } 2$
Manufacturer_	Hercules En	gine Compan	<u>Y</u> Engine	e Family SHE!	5.6D9KORA
Displacement	:/_	5.6 Lite	ers	/ 339	Cubic Inches
Maximum Rated	d Power:19	<u>0</u> HP@2	800 RPM	Engine Confi	guration: <u>I6</u>
Fuel Type(s):	: Dedicated	Flex-Fuel	Dual-Fuel	Gasolina	M100
Exhaust ECS (	e.g., MFI, TC,			mer (specify)	
	, , , , , , , , , , , , , , , , , , , ,	(u	se abbreviatio	ns per SAE J1	930 SEP91)
Engine Model (Eng Code)	Rated HP @ RPM	Ignition System or ECM/PCM	Injector & Pump	EGR Valve	Catalytic Converter
		Part No.	Part No.	Part No.	Part No.
GTA5.6CNG	190@2800	Note 1	Note 2	None	None
		-			
i					
	i i				
Notes:					
High Energ - Distribu - Spark ti	ystem - P/N y Capacitor torless (DLI ming control ured by Altr	Discharge ) led by engi	ne speed an	l manifold	pressure
Gaseous fuel into downstrea - Electron - Speed/der - Inputs: fuel temper - Developed	m - 40-25063 el injection roduced upst am of charge ically contro nsity strate manifold pro p. and press i by ORTECH ared by GFI	system ream of thr air cooler olled gy essure, engure, and ba	ine speed, i rometer pres	ntako ain k	emp.
Date Issued:		-			